



2X2-A

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HALF-WAVE VACUUM RECTIFIER*For applications critical as to severe shock and vibration***GENERAL DATA****Electrical:**

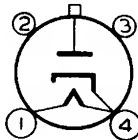
Heater, for Unipotential Cathode:

	<i>Min.</i>	<i>Av.</i>	<i>Max.</i>	
Voltage.	2.25	2.50	2.75	ac volts
Current at 2.50 volts. . .	1.55	1.75	1.95	amp

Mechanical:

Mounting Position.	Any
Maximum Overall Length.	4-17/32"
Seated Length.	3-25/32" ± 1/8"
Maximum Diameter.	1-9/16"
Dimensional Outline.	See General Section
Weight (Approx.)	1.3 oz
Eulb.	ST-12
Cap.	Small (JETEC No. C1-1)
Base.	Small-Shell Small 4-Pin (JETEC No. A4-5)
Basing Designation for BOTTOM VIEW.	4AB

Pin 1 - Heater
 Pin 2 - No Connec-
 tion
 Pin 3 - No Connec-
 tion



Pin 4 - Heater,
 Cathode
 Cap - Plate

HALF-WAVE RECTIFIER**Maximum Ratings, Design-Center Values:**

PEAK INVERSE PLATE VOLTAGE.	12500 max.	volts
PEAK PLATE CURRENT.	60 max.	ma
DC OUTPUT CURRENT.	7.5 max.	ma
HOT-SWITCHING TRANSIENT CURRENT, for duration of 0.2 second max.	100 max.	ma
AMBIENT TEMPERATURE.	70 max.	°C

Typical Operation:

AC Plate-Supply Voltage (RMS).	5500	volts
Total Effective Plate-Supply Impedance. . .	0.3	megohm
Filter Input Capacitor.	0.1	μf
DC Output Current.	2	ma
DC Output Voltage (At input to filter) . .	4500	volts

SHOCK TEST DATA

Impact Acceleration.	250 max.	g
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This test is performed on a sample lot of tubes from each production run to determine ability of tube to withstand the specified impact acceleration. The tubes are subjected to a total of 3 blows in each of the 3 primary mutually

← Indicates a change.

SEPT. 1, 1955

TUBE DIVISION

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

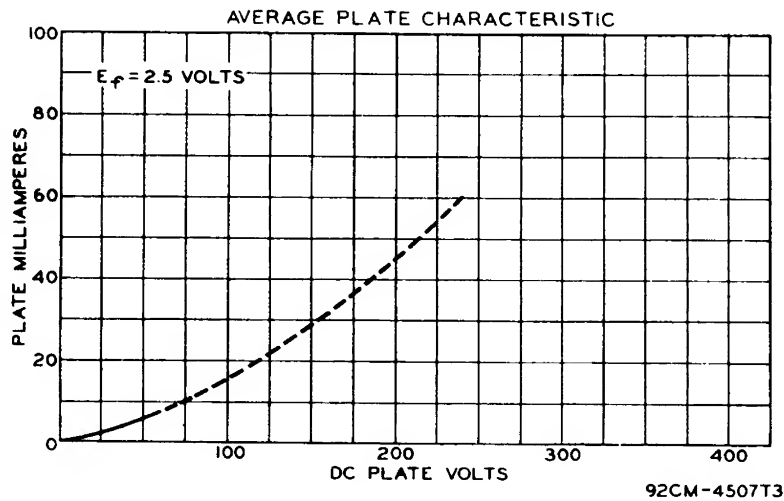
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HALF-WAVE VACUUM RECTIFIER

perpendicular tube planes when tested in the Navy Type, High-Impact (flyweight) Shock Machine. At the end of this test, tubes will not show permanent or temporary shorts or open circuits, and will not be inoperative.



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